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1 Automatic generation of cells for recurrence structures
Avinoam Bilgory, Daniel D. Gajski
June 1981 **Proceedings of the 18th conference on Design automation DAC '81**
Publisher: IEEE Press
Full text available: 📄 pdf(478.55 KB)   Additional Information: full citation, abstract, references, index terms

> This paper describes a method for automatic translation of functional into structural descriptions for Boolean recurrence systems. The solution of a recurrence system is accomplished by a network that requires at most four different types of cells. Given any Boolean recurrence of any order, the cell generator module defines the Boolean equations of these cells.

> **Keywords**: Boolean-recurrence solvers, Gate compilers, Logic-design automation

2 A dataflow language with object-based extension and its implementation on a commercially available parallel machine
Shigeru Kusakabe, Taku Nagai, Yoshihiro Yamashita, Rin-ichiro Taniguchi, Makoto Amamiya
July 1995 **Proceedings of the 9th international conference on Supercomputing ICS '95**
Publisher: ACM Press
Full text available: 📄 pdf(979.70 KB)   Additional Information: full citation, references, index terms

3 Synthetic Image Generation with a Lens and Aperture Camera Model
Michael Potmesil, Indranil Chakravarty
April 1982 **ACM Transactions on Graphics (TOG)**, Volume 1 Issue 2
Publisher: ACM Press
Full text available: 📄 pdf(1.87 MB)   Additional Information: full citation, references, citings, index terms

> **Keywords**: camera model, defocused optical system, lens and aperture, point-spread function

4 Using the exact state space of a Markov model to compute approximate stationary

measures
Andrew S. Miner, Gianfranco Ciardo, Susanna Donatelli
June 2000 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2000 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '00**, Volume 28 Issue 1
Publisher: ACM Press

Full text available: pdf(912.04 KB)   Additional Information: full citation, abstract, references, citings, index terms

We present a new approximation algorithm based on an exact representation of the state space S, using decision diagrams, and of the transition rate matrix R, using Kronecker algebra, for a Markov model with K submodels. Our algorithm builds and solves K Markov chains, each corresponding to a different aggregation of the exact process, guided by the structure of the decision diagram, and iterates on their solution until their entries are sta ...

5 Partitioning the Period of a Class of m-Sequences and Application to Pseudorandom Number Generation
A. C. Arvillias, D. G. Maritsas
October 1978 **Journal of the ACM (JACM)**, Volume 25 Issue 4
Publisher: ACM Press
Full text available: pdf(736.91 KB)   Additional Information: full citation, references, citings, index terms

6 Deriving efficient parallel programs for complex recurrences
Yong Meng Teo, Wei-Ngan Chin, Soon Huat Tan
July 1997 **Proceedings of the second international symposium on Parallel symbolic computation PASCO '97**
Publisher: ACM Press
Full text available: pdf(1.35 MB)   Additional Information: full citation, references, citings, index terms

7 Dependences and register allocation: An empirical evaluation of chains of recurrences for array dependence testing
J. Birch, R.A. van Engelen, K.A. Gallivan, Y. Shou
September 2006 **Proceedings of the 15th international conference on Parallel architectures and compilation techniques PACT '06**
Publisher: ACM Press
Full text available: pdf(274.34 KB)   Additional Information: full citation, abstract, references, index terms

Code restructuring compilers rely heavily on program analysis techniques to automatically detect data dependences between program statements. Dependences between statement instances in the iteration space of a loop nest impose ordering constraints that must be preserved in order to produce valid optimized, vectorized, and parallelized loop nests. This paper evaluates a new approach for fast and accurate nonlinear array dependence testing using Chains of Recurrences (CRs). A flow-sensitive loop a ...

Keywords: chains of recurrences, dependence testing, loop optimization

8 Recursion patterns and time-analysis
Manuel Barbosa, Alcino Cunha, Jorge Sousa Pinto
May 2005 **ACM SIGPLAN Notices**, Volume 40 Issue 5
Publisher: ACM Press

Full text available: 🔼 pdf(401.69 KB)   Additional Information: full citation, abstract, references, index terms

This paper explores some ideas concerning the time-analysis of functional programs defined by instantiating typical recursion patterns such as *folds, unfolds*, and *hylomorphisms.* The concepts in this paper are illustrated through a rich set of examples in the Haskell programming language. We concentrate on unfolds and folds (also known as anamorphisms and catamorphisms respectively) of recursively defined types, as well as the more general *hylomorphism* pattern. For the latter ...

9 Document engineering (DE): poster paper: Approximate XML document matching   ▬

E. Rodney Canfield, Guangming Xing

March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**

Publisher: ACM Press

Full text available: 🔼 pdf(123.07 KB)   Additional Information: full citation, abstract, references, citings, index terms, review .

Regular Hedge Grammar is a formal method to specify XML schema. XML document can be viewed as an ordered labeled tree. Computing the approximate matching between an XML document with a schema with minimum cost is not only theoretically interesting. This problem can be modeled as: Given an ordered labeled tree F and a regular hedge grammar P, how to compute the minimum edit distance to transform the forest F into F' so that F' is exactly matched by P. In ...

Keywords: XML, approximate matching, design of algorithm, document transformation, tree, tree grammar

10 The Value Evolution Graph and its Use in Memory Reference Analysis   ▬

Silvius Rus, Dongmin Zhang, Lawrence Rauchwerger

September 2004 **Proceedings of the 13th International Conference on Parallel Architectures and Compilation Techniques PACT '04**

Publisher: IEEE Computer Society

Full text available: 🔼 pdf(230.44 KB)   Additional Information: full citation, abstract, citings

We introduce a framework for the analysis of memory reference sets addressed by induction variables without closed forms. This framework relies on a new data structure, the value evolution graph(VEG), which models the global flow of values taken by induction variable with and without closed forms. We describe the application of our framework to array data-flow analysis, privatization, and dependence analysis. This results in the automatic parallelization of loops that contain arrays addressed by ...

11 A framework for resolution of time in natural language   ▬

Benjamin Han, Alon Lavie

March 2004 **ACM Transactions on Asian Language Information Processing (TALIP),** Volume 3 Issue 1

Publisher: ACM Press

Full text available: 🔼 pdf(708.45 KB)   Additional Information: full citation, abstract, references, index terms

Automatic extraction and reasoning over temporal properties in natural language discourse has not had wide use in practical systems due to its demand for a rich and compositional, yet inference-friendly, representation of time. Motivated by our study of temporal expressions from the Penn Treebank corpora, we address the problem by proposing a two-level constraint-based framework for processing and reasoning over temporal information in natural language. Within this framework, temporal expression ...

Keywords: computational semantics, constraint solving, knowledge representation, temporal information processing, temporal reasoning

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